

Scaled data based on original data using
LM-79-2019 Approved Method: Electrical and Photometric Measurements of Solid-State
Lighting Products

Test Report Prepared for

Cooper Lighting Solutions

Brand: CORELITE

Report Number: P995525

Luminaire Tested: 22D3X-LP-WD-45-L835.ies

Issue Date: 12/20/2023

Test Information

Test Method: LM-79-2019
Report Number: P995525
TEST IS SCALED FROM IESNA LM-79-08 TEST DATA (G3-2307-104-1)
Test Lab: INNOVATION CENTER
Issue Date: 12/20/2023
Manufacturer: COOPER LIGHTING SOLUTIONS
Product Line: CORELITE
Catalog Number: 22D3X-LP-WD-45-L835.ies
Description: 2x2 D3X-LP AT 4500LM 3500K 80CRI
Light Source: -
Ballast/Driver: -

Summary

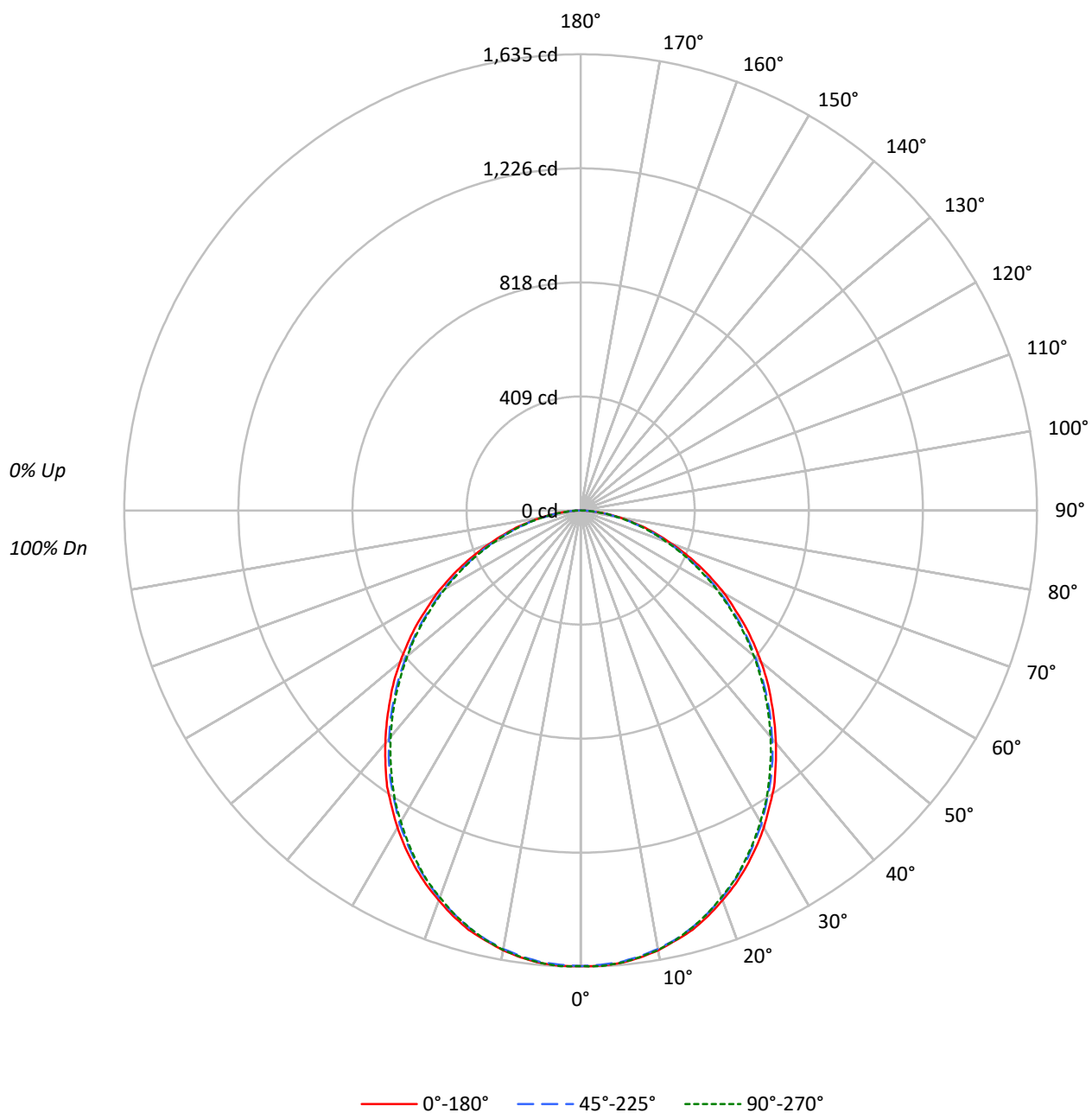
Lumens per Lamp: N/A
Luminaire Lumens: 4080.6 lumens
Efficiency: N/A
Efficacy: 108.0 lumens/watt
Spacing Criteria (0/90/45): 1.2 / 1.18 / 1.29
Luminous Opening: Rectangular (W 2' x L: 2' x H: 0')
CIE Type: Direct

Input Watts (W): 37.8
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 24 FT

TEST NUMBER: P995525

CATALOG NUMBER: 22D3X-LP-WD-45-L835.ies

Luminous Intensity Polar Plot



TEST NUMBER: P995525

CATALOG NUMBER: 22D3X-LP-WD-45-L835.ies

COEFFICIENT OF UTILIZATION - ZONAL CAVITY METHOD:

RF	20				20					20					20					20
RC	80				70					50					30					0
RW	70	50	30	10	70	50	30	10	50	30	10	50	30	10	50	30	10	50	30	0
RCR																				
0	119	119	119	119	116	116	116	116	111	111	111	106	106	106	102	102	102	100		100
1	109	105	101	97	107	102	99	95	98	95	92	94	92	89	91	89	87	85		85
2	100	92	85	80	97	90	84	79	86	81	77	83	79	75	80	77	73	71		71
3	91	81	73	67	89	79	72	66	76	70	65	74	68	64	71	67	63	61		61
4	84	72	64	57	81	71	63	57	68	61	56	66	60	55	64	59	54	52		52
5	77	65	56	49	75	64	55	49	61	54	49	59	53	48	58	52	48	45		45
6	71	58	50	43	69	57	49	43	56	48	43	54	47	42	52	47	42	40		40
7	66	53	44	38	65	52	44	38	51	43	38	49	43	38	48	42	37	36		36
8	62	49	40	34	60	48	40	34	47	39	34	45	39	34	44	38	34	32		32
9	58	45	37	31	56	44	36	31	43	36	31	42	35	31	41	35	31	29		29
10	54	41	33	28	53	41	33	28	40	33	28	39	32	28	38	32	28	26		26

AVERAGE LUMINANCE (cd/sqm):

	0°	45°	90°
0°	4394	4394	4394
5°	4398	4389	4398
10°	4373	4360	4369
15°	4332	4309	4309
20°	4257	4234	4225
25°	4177	4139	4124
30°	4078	4028	4002
35°	3970	3895	3868
40°	3822	3748	3719
45°	3677	3590	3559
50°	3534	3418	3391
55°	3373	3251	3205
60°	3204	3064	3020
65°	2982	2837	2807
70°	2725	2623	2559
75°	2486	2333	2351
80°	2142	2016	2041
85°	1658	1606	1507

MAXIMUM LUMINANCE 45°-90°:

Horizontal Angle: 0°

Vertical Angle: 45°

Luminance: 3677 cd/sqm

TEST NUMBER: P995525

CATALOG NUMBER: 22D3X-LP-WD-45-L835.ies

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	154.2	3.8
10°-20°	436.2	10.7
20°-30°	642.4	15.7
30°-40°	743.1	18.2
40°-50°	730.5	17.9
50°-60°	622.6	15.3
60°-70°	446.1	10.9
70°-80°	242.3	5.9
80°-90°	63.2	1.5
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-30°	1232.8	30.2
0°-40°	1975.9	48.4
0°-60°	3329.0	81.6
0°-90°	4080.6	100.0
90°-120°	0.0	0.0
90°-150°	0.0	0.0
90°-180°	0.0	0.0
0°-180°	4080.6	100.0

CANDELA DISTRIBUTION:

	0°	22.5°	45°	67.5°	90°	Flux
0°	1633	1633	1633	1633	1633	
5°	1628	1625	1625	1625	1628	154
15°	1555	1548	1547	1545	1547	438
25°	1407	1400	1394	1391	1389	648
35°	1208	1199	1186	1179	1178	754
45°	966	960	943	935	935	746
55°	719	706	693	685	683	642
65°	468	459	446	441	441	464
75°	239	231	224	221	226	253
85°	54	54	52	50	49	65
90°	0	0	0	0	0	

TEST NUMBER: P995525

CATALOG NUMBER: 22D3X-LP-WD-45-L835.ies

CANDELA DISTRIBUTION (FULL):

	0°	22.5°	45°	67.5°	90°
0°	1633.0	1633.0	1633.0	1633.0	1633.0
2.5°	1633.0	1631.3	1629.7	1631.3	1634.6
5°	1628.1	1624.8	1624.8	1624.8	1628.1
7.5°	1616.7	1613.4	1611.8	1613.4	1615.1
10°	1600.4	1597.2	1595.5	1597.2	1598.8
12.5°	1577.7	1576.0	1574.4	1574.4	1576.0
15°	1554.9	1548.4	1546.8	1545.1	1546.8
17.5°	1522.4	1520.7	1514.2	1514.2	1514.2
20°	1486.6	1483.3	1478.4	1475.2	1475.2
22.5°	1449.2	1445.9	1437.8	1434.5	1436.2
25°	1406.9	1400.4	1393.9	1390.6	1389.0
27.5°	1361.3	1354.8	1345.1	1340.2	1340.2
30°	1312.5	1307.7	1296.3	1289.8	1288.1
32.5°	1258.9	1255.6	1239.4	1236.1	1236.1
35°	1208.5	1198.7	1185.7	1179.2	1177.5
37.5°	1148.3	1141.8	1128.8	1120.6	1119.0
40°	1088.1	1080.0	1067.0	1060.4	1058.8
42.5°	1027.9	1019.8	1006.8	998.6	997.0
45°	966.1	959.6	943.3	935.2	935.2
47.5°	907.6	894.5	879.9	873.4	871.8
50°	844.1	832.7	816.5	810.0	810.0
52.5°	780.7	772.6	754.7	751.4	748.2
55°	718.9	705.9	692.9	684.7	683.1
57.5°	652.2	640.8	627.8	621.3	621.3
60°	595.3	580.6	569.3	561.1	561.1
62.5°	530.2	517.2	505.8	500.9	499.3
65°	468.4	458.7	445.6	440.8	440.8
67.5°	406.6	398.5	387.1	382.2	383.8
70°	346.4	341.6	333.4	326.9	325.3
72.5°	291.1	284.6	276.5	274.9	274.9
75°	239.1	231.0	224.4	221.2	226.1
77.5°	185.4	180.5	177.3	175.7	177.3
80°	138.2	131.7	130.1	131.7	131.7
82.5°	96.0	92.7	91.1	91.1	91.1
85°	53.7	53.7	52.0	50.4	48.8
87.5°	21.1	21.1	22.8	22.8	24.4
90°	0.0	0.0	0.0	0.0	0.0

(END OF REPORT)